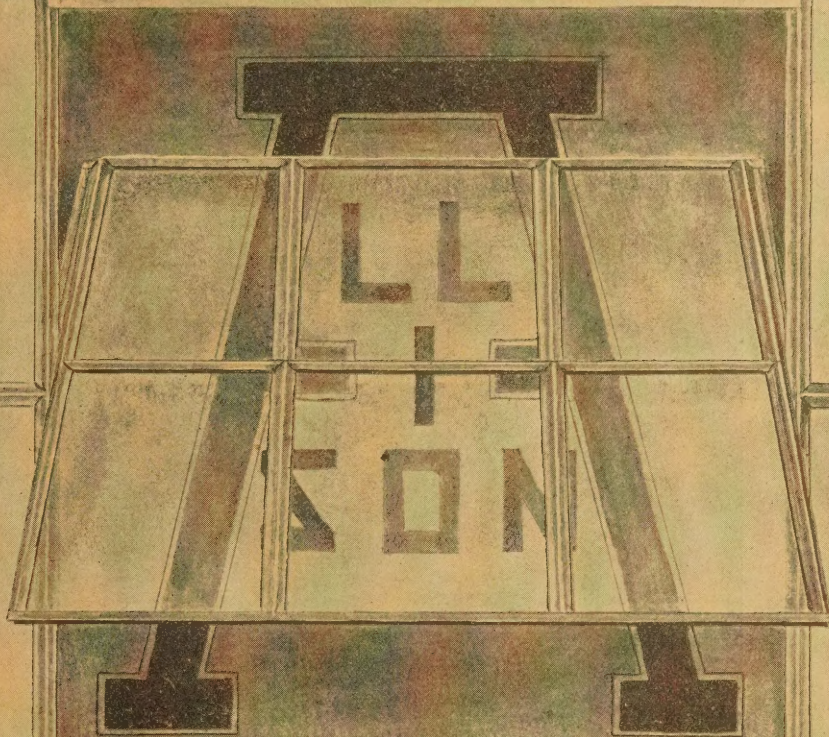


STEEL

SASH



ALLISON STEEL PRODUCTS CO.

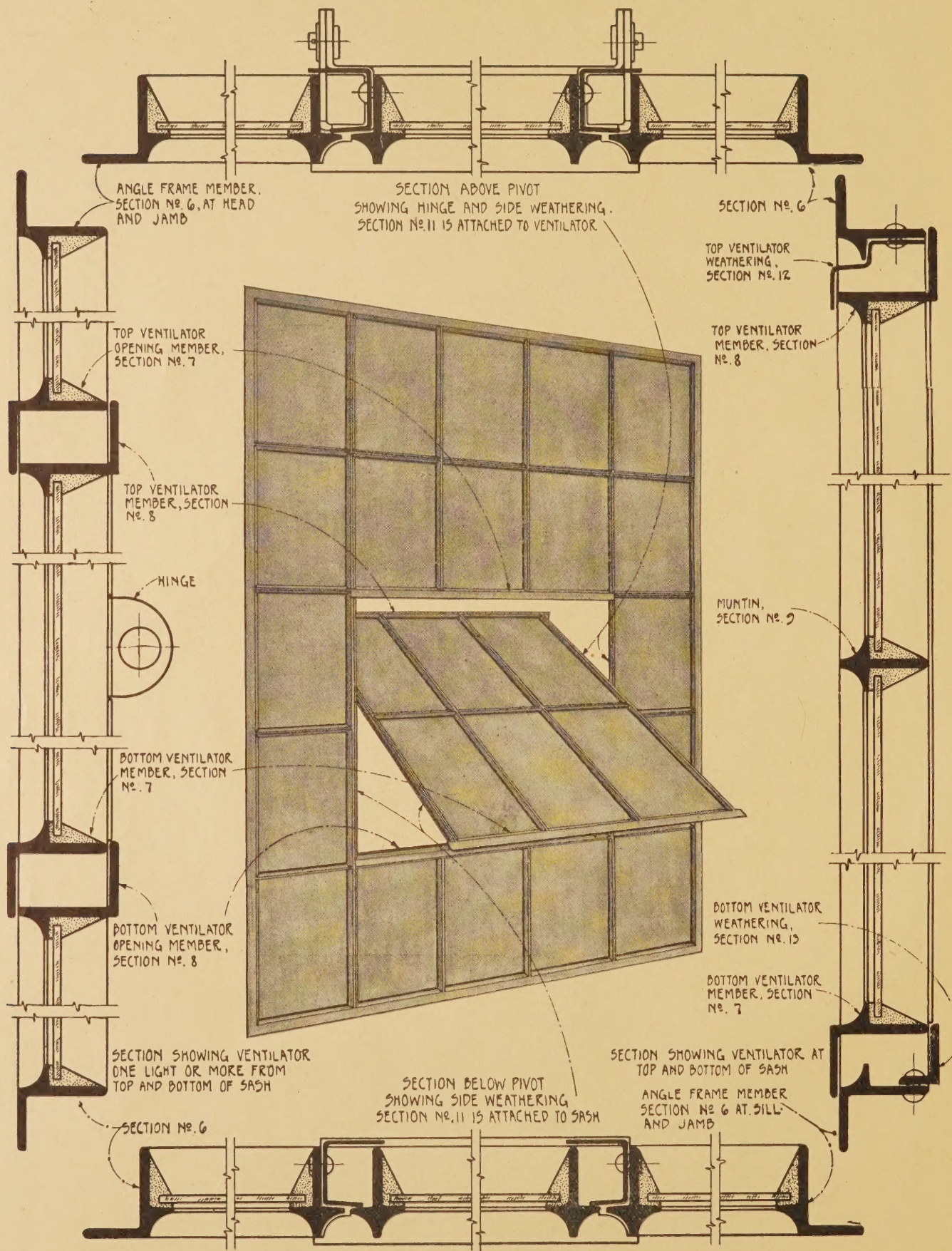
INCORPORATED

CHESTER, PA.

REPRESENTED BY  
R. E. STANTON CO.  
2694 UNIVERSITY AVE.  
ST. PAUL, MINN.



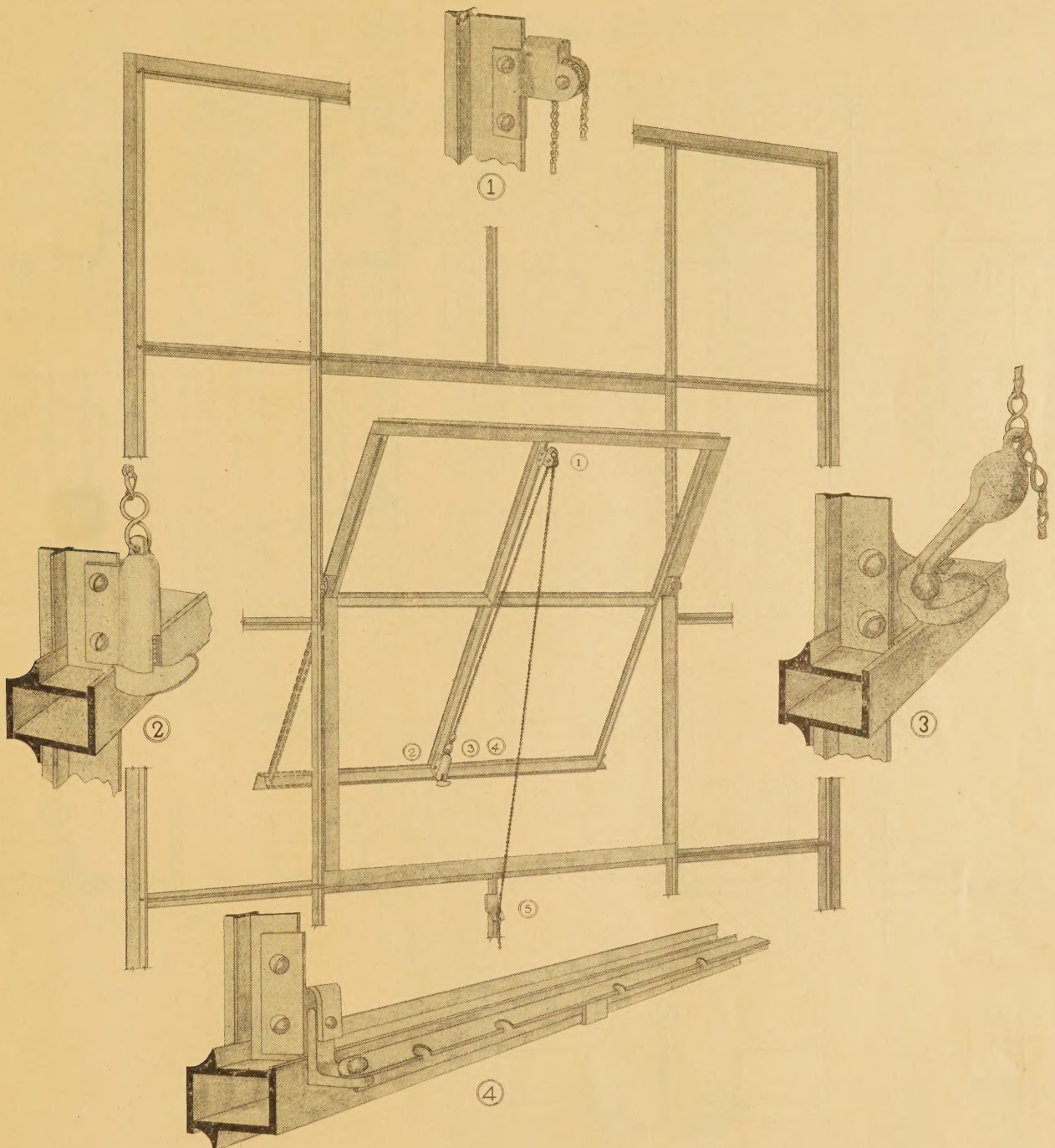
# VERTICAL AND HORIZONTAL SECTIONS





## CENTER PIVOTED WINDOWS

## HARDWARE AND APPLICATION

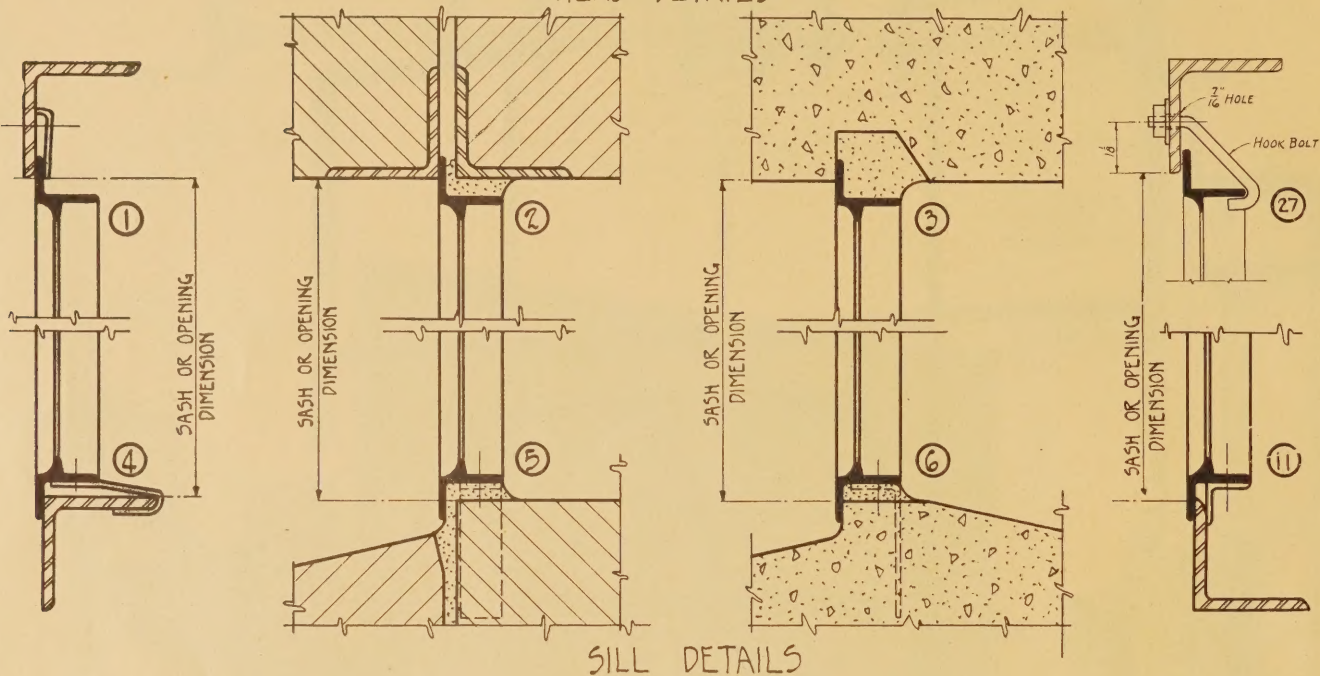


- No. 1. Pulley.      Furnished in connection with spring catch or cam latch. Attached by (2) 3-16" x 1-2" Round Head Stove Bolts.
- No. 2. Spring catch      Furnished for vents beyond reach from floor, where automatic action is desired. Attached by (2) 3-16" x 1-2" Round Head Stove Bolts.
- No. 3. Cam latch      Furnished for vents beyond reach of floor where non-automatic action is desired. Attached by (2) 14-20 x 3-8" Round Head Machine Screws.
- No. 4. Push bar      Furnished for all vents within reach from floor unless otherwise specified. Attached by (2) 3-16" x 1-2" Round Head Stove Bolts.
- No. 4a. Push bar rest      Furnished with all push bars. Attached by (1) 3-16" x 1-2" Round Head Stove Bolt.
- No. 5. Sash chain cleat      Furnished for vents operated by chain where sill of sash is within reach from floor. Attached by (1) 3-16" x 1-2" Round Head Stove Bolts.
- No. 5a. Wall chain cleat      Furnished where sill is beyond reach from floor. Attached by (2) No. 14 x 1 1-2" wood screws.

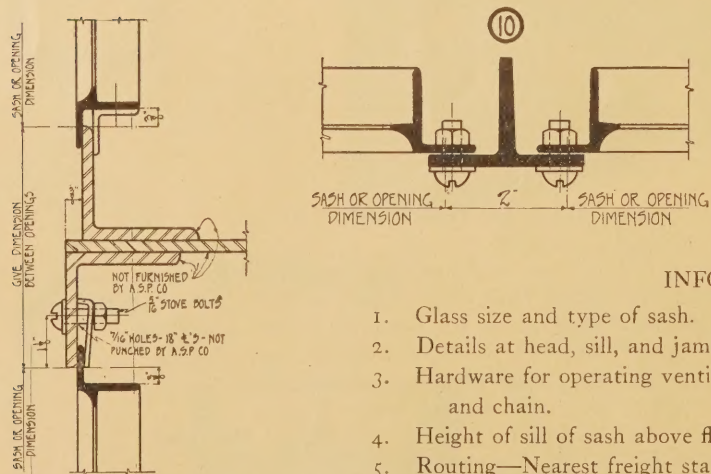


## INSTALLATION DETAILS

## HEAD DETAILS



## JAMB DETAILS



### INFORMATION REQUIRED

1. Glass size and type of sash.
2. Details at head, sill, and jamb. Use numbers shown above.
3. Hardware for operating ventilators—whether cam latch and chain, push bar, or spring catch and chain.
4. Height of sill of sash above floor.
5. Routing—Nearest freight station if less than carload, nearest siding if carload.

(DETAILS ONE-QUARTER FULL SIZE)



## STANDARD STOCK BAR TYPES

1 Pane High B Height 1'-7 $\frac{1}{4}$ " C Height 1'-9 $\frac{1}{4}$ "										
2 Panes High B Height 3'-1 $\frac{3}{8}$ " C Height 3'-5 $\frac{5}{8}$ "										
3 Panes High B Height 4'-8" C Height 5'-2"										
4 Panes High B Height 6'-2 $\frac{3}{8}$ " C Height 6'-10 $\frac{3}{8}$ "										
5 Panes High B Height 7'-8 $\frac{3}{4}$ " C Height 8'-6 $\frac{3}{4}$ "										
6 Panes High B Height 9'-3 $\frac{3}{8}$ " C Height 10'-3 $\frac{3}{8}$ "										
	21	21 20	31	31 30	41	41 40	51	51 50	61	61 60
	22	22 40	32	32 60	42	42 80	52	52 60	62	62 80
	23	23 41	33	33 61	43	43 81	53	53 61	63	63 81
	24	24 41	34	34 61	44	44 81	54	54 61	64	64 81
	25	25 41	35	35 61	45	45 81	55	55 61	65	65 81
	26	26 41	36	36 61	46	46 81	56	56 61	66	66 81
	2 Panes Wide B Width 2'-1 $\frac{3}{8}$ " C Width 2'-5 $\frac{5}{8}$ "	3 Panes Wide B Width 3'-2" C Width 3'-8"	4 Panes Wide B Width 4'-2 $\frac{3}{8}$ " C Width 4'-10 $\frac{3}{8}$ "	5 Panes Wide B Width 5'-2 $\frac{3}{8}$ " C Width 6'-0 $\frac{3}{8}$ "	6 Panes Wide B Width 6'-3 $\frac{3}{8}$ " C Width 7'-3 $\frac{3}{8}$ "					

B=12"x18" Glass. Combine B Widths with B Heights.

C=14"x20" Glass. Combine C Widths with C Heights.

When combining sash add 2" for T-Bar Mullion.

## DIMENSIONS OF STANDARD OPENINGS

TABLE OF HEIGHTS

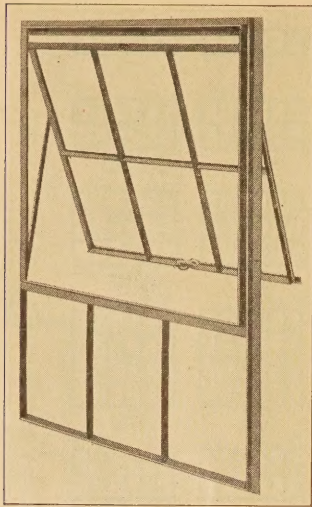
Lights High	B 18" Glass	C 20" Glass
1	1'-7 $\frac{1}{4}$ "	1'-9 $\frac{1}{4}$ "
2	3'-1 $\frac{3}{8}$ "	3'-5 $\frac{5}{8}$ "
3	4'-8"	5'-2"
4	6'-2 $\frac{3}{8}$ "	6'-10 $\frac{3}{8}$ "
5	7'-8 $\frac{3}{4}$ "	8'-6 $\frac{3}{4}$ "
6	9'-3 $\frac{3}{8}$ "	10'-3 $\frac{3}{8}$ "
7	10'-9 $\frac{1}{2}$ "	11'-11 $\frac{1}{2}$ "
8	12'-3 $\frac{3}{8}$ "	

Combine B-12" widths with B-18" heights.  
Combine C-14" widths with C-14" heights.

Note—Pivoted sash bearing the label of the Underwriters' Laboratories can be furnished when distinctly specified in bid and called for in specifications.

B-12" Glass	C-14" Glass	No. of Lights Wide	No. of Sash Units	No. of Lights in Each Sash	No. of Mullions Required
3' 2"	3' 8"	3	1	3	None
4' 2 $\frac{3}{8}$ "	4' 10 $\frac{3}{8}$ "	4	1	4	"
5' 2 $\frac{3}{8}$ "	6' 0 $\frac{3}{8}$ "	5	1	5	"
6' 3 $\frac{3}{8}$ "	7' 3 $\frac{3}{8}$ "	6	1	6	"
6' 6"	7' 6"	6	2	3, 3	1
8' 6 $\frac{3}{4}$ "	9' 10 $\frac{3}{8}$ "	8	2	4, 4	1
9' 10"	11' 4"	9	3	3, 3, 3	2
10' 7 $\frac{7}{8}$ "	12' 3 $\frac{3}{8}$ "	10	2	5, 5	1
10' 10 $\frac{3}{8}$ "	12' 6 $\frac{3}{8}$ "	10	3	3, 4, 3	2
11' 10 $\frac{3}{8}$ "	13' 8 $\frac{3}{8}$ "	11	3	4, 3, 4	2
11' 10 $\frac{3}{8}$ "	13' 8 $\frac{3}{8}$ "	12	3	3, 5, 3	2
12' 8 $\frac{1}{2}$ "	14' 8 $\frac{1}{2}$ "	12	2	6, 6	1
12' 11 $\frac{1}{8}$ "	14' 11 $\frac{1}{8}$ "	12	3	4, 4, 4	2
12' 11 $\frac{1}{8}$ "	14' 11 $\frac{1}{8}$ "	12	3	3, 6, 3	2
13' 2"	15' 2"	12	4	3, 3, 3, 3	3
13' 11 $\frac{1}{2}$ "	16' 1 $\frac{1}{2}$ "	13	3	5, 3, 5	2
13' 11 $\frac{1}{2}$ "	16' 1 $\frac{1}{2}$ "	13	3	4, 5, 4	2
14' 11 $\frac{1}{8}$ "	17' 3 $\frac{3}{8}$ "	14	3	4, 6, 4	2
15' 2 $\frac{3}{4}$ "	17' 6 $\frac{3}{4}$ "	14	4	3, 4, 4, 3	3
16' 0 $\frac{3}{4}$ "	18' 6 $\frac{3}{4}$ "	15	3	6, 3, 6	2
16' 0 $\frac{3}{4}$ "	18' 6 $\frac{3}{4}$ "	15	3	5, 5, 5	2
16' 6"	19' 0"	15	5	3, 3, 3, 3, 3	4
17' 0 $\frac{5}{8}$ "	19' 8 $\frac{5}{8}$ "	16	3	5, 6, 5	2
17' 0 $\frac{5}{8}$ "	19' 8 $\frac{5}{8}$ "	16	3	6, 4, 6	2
17' 3 $\frac{1}{2}$ "	19' 11 $\frac{1}{2}$ "	16	4	4, 4, 4, 4	3
17' 6 $\frac{3}{8}$ "	20' 2 $\frac{3}{8}$ "	16	5	3, 3, 4, 3, 3	4
18' 1"	20' 11"	17	3	6, 5, 6	2
18' 6 $\frac{3}{8}$ "	21' 4 $\frac{3}{8}$ "	17	5	3, 4, 3, 4, 3	4
19' 1 $\frac{1}{8}$ "	22' 1 $\frac{1}{8}$ "	18	3	6, 6, 6	2
19' 4 $\frac{1}{4}$ "	22' 4 $\frac{1}{4}$ "	18	4	4, 5, 5, 4	3
19' 4 $\frac{1}{4}$ "	22' 4 $\frac{1}{4}$ "	18	4	3, 6, 6, 3	3
20' 7 $\frac{1}{2}$ "	23' 9 $\frac{1}{2}$ "	19	5	5, 3, 3, 3, 5	4
21' 5"	24' 9"	20	4	5, 5, 5, 5	3
21' 5"	24' 9"	20	4	4, 6, 6, 4	3
21' 7 $\frac{1}{8}$ "	24' 11 $\frac{1}{8}$ "	20	5	4, 4, 4, 4, 4	4
21' 7 $\frac{1}{8}$ "	24' 11 $\frac{1}{8}$ "	20	5	3, 4, 6, 4, 3	4
22' 8 $\frac{1}{4}$ "	26' 2 $\frac{1}{4}$ "	21	5	4, 4, 5, 4, 4	4
22' 8 $\frac{1}{4}$ "	26' 2 $\frac{1}{4}$ "	21	5	3, 5, 5, 5, 3	4
23' 5 $\frac{1}{4}$ "	27' 1 $\frac{1}{4}$ "	22	4	5, 6, 6, 5	3
23' 8 $\frac{1}{4}$ "	27' 4 $\frac{1}{4}$ "	22	5	4, 5, 4, 5, 4	4



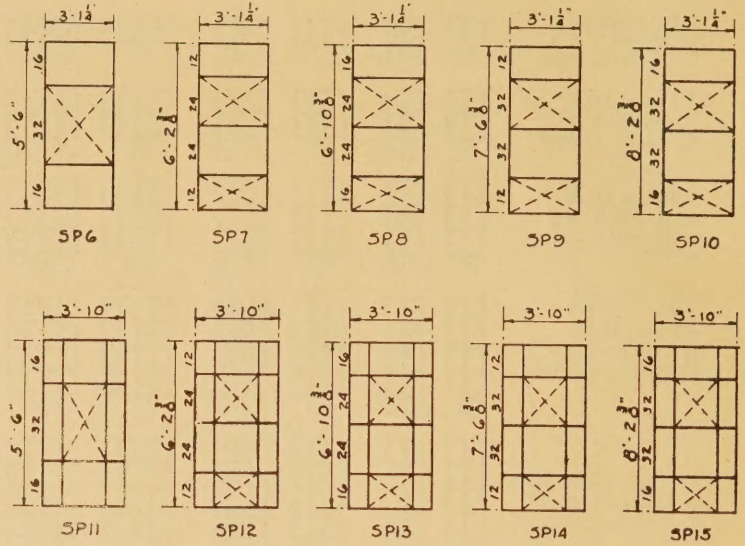


Typical Elevation

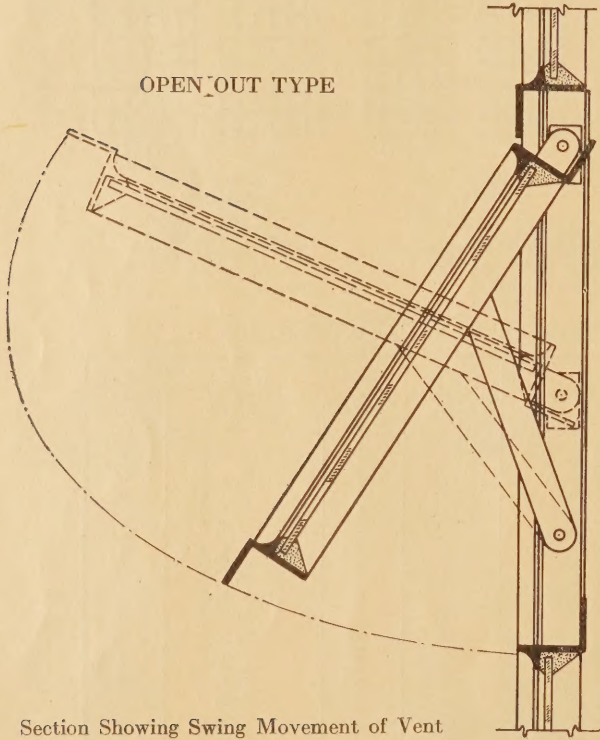
### STANDARD INDUSTRIAL TYPES

Same as pivoted types, except we do not recommend vents exceeding 6 lights. See page No. 4.

### ARCHITECTURAL TYPES

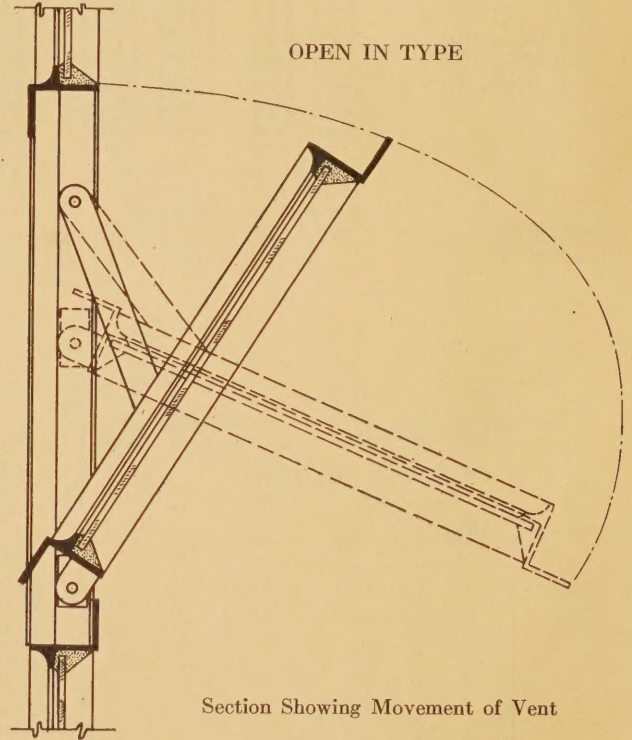


### OPEN OUT TYPE

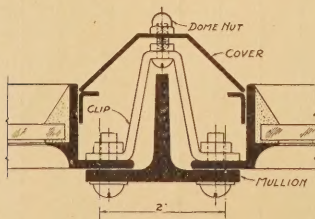


Section Showing Swing Movement of Vent

### OPEN IN TYPE



Section Showing Movement of Vent



Detail showing mullion cover furnished only when distinctly specified; otherwise standard T bar mullion without cover will be furnished.

The project ventilator window is an economical architectural window for use in schools, hospitals and office building.

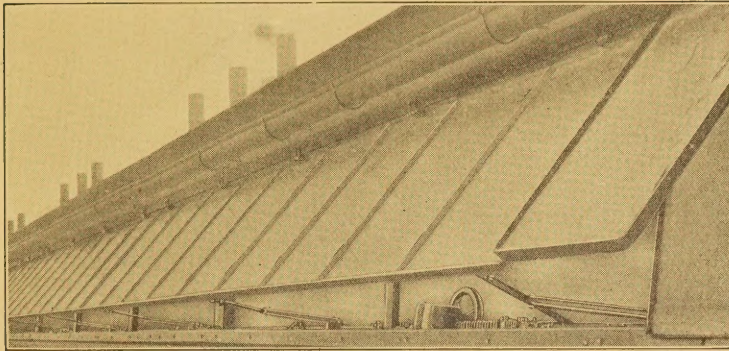
It can be screened and shaded without difficulty and is furnished with suitable brass fittings.

Note—Open out type can be made to meet the specifications of the National Board of Fire Underwriters.

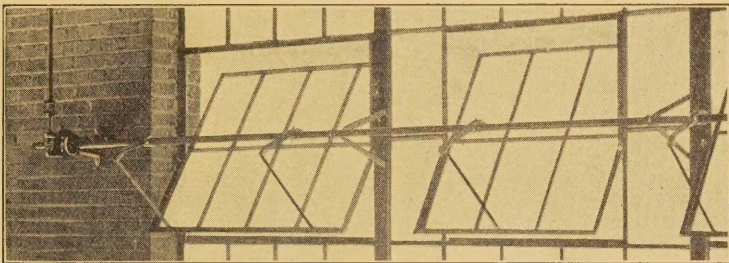


## OTHER ALLISON PRODUCTS

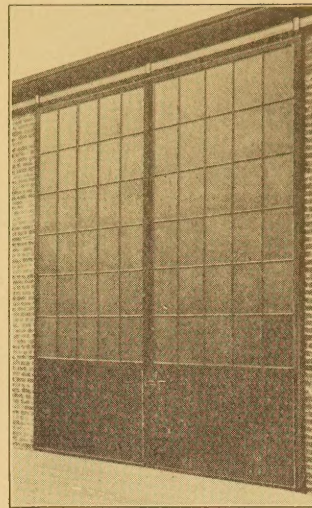
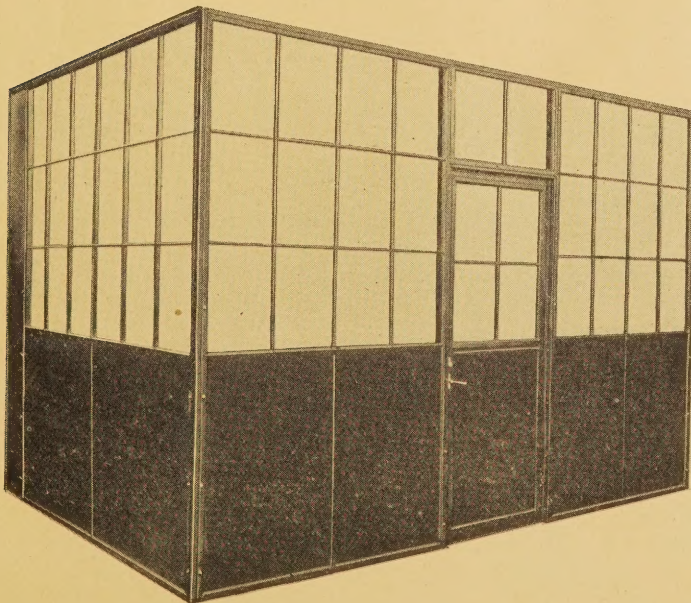
Continuous Sash and Tension Operating Device



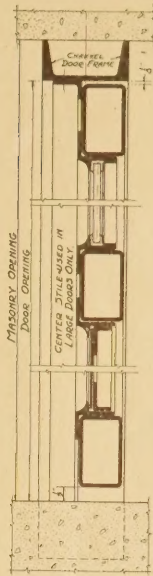
Torsion Operating Device



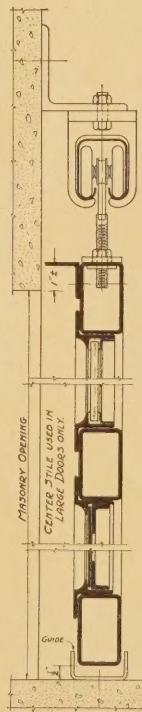
Steel Factory Partition



Typical Elevation

Vertical Section  
Hinged Door

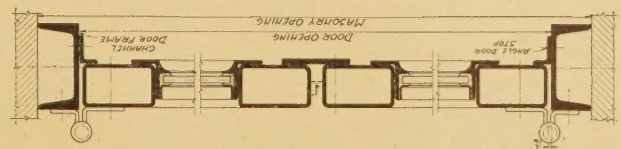
Horizontal Section, Sliding Door



Vertical Section, Sliding Door

Standard Sizes

Type	Opening Dimensions	Plate Height	Size Channel Frame
Single Swing	3' 0" x 7' 0"	3' 0"	4"
	4' 0" x 7' 0"	3' 0"	4"
	3' 0" x 8' 0"	3' 0"	6"
Double Swing	6' 0" x 7' 0"	3' 0"	6"
	8' 0" x 7' 0"	3' 0"	6"
	8' 0" x 8' 0"	3' 0"	8"
Single Sliding	3' 0" x 7' 0"	3' 0"	None
	4' 0" x 7' 0"	3' 0"	"
	3' 0" x 8' 0"	3' 0"	"
	4' 0" x 8' 0"	3' 0"	"
	4' 0" x 9' 0"	4' 0"	"
Double Sliding	5' 0" x 10' 0"	4' 0"	"
	6' 0" x 7' 0"	3' 0"	"
	8' 0" x 7' 0"	3' 0"	"
	6' 0" x 8' 0"	3' 0"	"
	8' 0" x 8' 0"	3' 0"	"
	8' 0" x 9' 0"	4' 0"	"
	10' 0" x 10' 0"	4' 0"	"



Horizontal Section, Hinged Door (Double)



